

IN THE ABSTRACT

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The invention relates to a probe device for measuring the concentration of at least one volatile component in an aqueous solution, in particular for measuring the concentration of ethanol, ~~comprising: the device having~~ a probe body with an opening, which is tightly covered by a flat membrane, wherein ~~said the~~ membrane is permeable for the volatile component, and a sensor for measuring the concentration of the volatile component, wherein ~~said the~~ sensor is located inside the probe body and ~~comprises~~ has a sensitive surface, which is located in a first measuring space, wherein an inner side of the flat membrane is part of a second measuring space, wherein the first measuring space and the second measuring space are connected by a measuring aperture, and wherein the first measuring space is connected to a carrier gas exhaust and the second measuring space is connected to a carrier gas supply.